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(19) (CA) **CANADIAN PATENT** (12)

(54) STUCCO MIX

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ABSTRACT OF THE DISCLOSURE

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A stucco mix comprising in weight % between 15% and 30% water, 15% and 30% cellulose glue, 35% and 55% calcium carbonate, 3% and 30% linseed oil, 0% and 3% resin and 0% and 0.5% of a siccative. The preferred mix contains about 20% water, 25% cellulose glue, 55% granular calcium carbonate, 4% boiled linseed oil, 1.5% resin and 0.5% of a cobalt siccative.

This invention relates to a stucco mix for application on concrete, brick, wood, stone, concrete blocks, asbestos cement, masonite, plywood, gyproc and most interior surfaces.

Stucco is a known wall covering material which is extensively used in construction. It is generally made of marble dust, slacked lime, chalk and a binder. The conventional stucco is however getting expensive and it would be desirable to use less costly ingredients in the composition to reduce the price.

10 Applicant has surprisingly found that a good stucco of much lower cost may be made. The stucco mix, in accordance with the invention, comprises in weight % between 15% and 30% water, 15% and 30% cellulose glue, 35% and 55% calcium carbonate, 3% and 30% linseed oil, 0% and 3% resin and 0% and 0.5% or a siccative.

The stucco mix preferably comprises about 20% water, 25% cellulose glue, 50% granular calcium carbonate, 4% boiled linseed oil, 0.5% resin and 0.5% of a cobalt siccative.

20 Of the above ingredients of the composition, cellulose glue is a binder containing 100% cellulose in powder form which forms a gel with water, calcium carbonate is a filler which is made of marble dust or chalk, linseed oil is used to render the composition more consistent and to prevent cracking, resin is a varnish used to harden the composition and the cobalt siccative or dryer is used to more rapidly dry the composition, more particularly, linseed oil and the resin.

Linseed oil is an important element of the composition as it allows the mixture to remain more consistent. If more than 10% by weight of linseed oil is used, the composition tends to turn yellow. Thus, the content of linseed oil must not exceed 10% for white stucco. However, it may be up to 30% when pigments are added

to make a composition other than white.

It will be noted that the resin and siccative may be left out of the composition for certain applications where the drying time or the toughness of the composition are not critical.

For thick coating of the order of 1/2", sand or sawdust may be added to the above composition in an amount of about 5% to 30% by weight. Sawdust goes well with the cellulose glue, since both are wood products.

10 The above composition is generally white but it may be colored by adding pigments. Coloration may be done by the user or in the factory.

In making the composition, calcium carbonate and water are first mixed together and cellulose glue added to the mixture. The cellulose glue may also be mixed with water and calcium carbonate, then added to the mixture. Linseed oil and the other elements of the composition are then added to complete the mixture. The stucco mix is preferably aged for a few weeks before being put in containers to permit the cellulose glue to more thoroughly wet the calcium carbonate powder.

20 To obtain a mix which remains workable for a longer time, to the above mixture, one adds 10% by weight of the following additional mixture:

1 part by weight of plaster of Paris

2 parts by weight of a slow drying plaster, such as the one sold under the trade name "Gold Dust", by Domtar Inc.

The above-disclosed stucco mix may also be applied to concrete, brick, wood, stone, asbestos cement, masonite, plywood, gyproc, and most interior surfaces. The surfaces must be dry, clean and free of dust, oil, grease, rust, mildew, chalk, loose paint, etc. The holes and other imperfections in the surfaces to be coated must be previously
30 filled with a suitable binder. It is also preferable to apply a primer, such as cellulose glue, to the surface to be coated, in order to seal the pores.

The above-disclosed stucco may be applied using a trowel, a metal spatula, a knife coater, a sponge, a spray gun, a roller or a broom. However, when sawdust is added to the composition, a spray gun cannot be used.

The drying time of the above stucco mix is between 10 and 24 hours, depending on the composition and on the amount of siccative added thereto.

10 The stucco coating, when dry, may be painted with latex or oil paint. It may also be washed with water. If it is desired to remove the old stucco coating made in accordance with the invention, it may be done very simply by wetting the coating with water for about 1/2 hour and peeling off the coating with a conventional knife. The stucco mix, in accordance with the invention, may be usually removed without damaging the wall surfaces, contrary to the known stucco mix.

The equipment used for applying the stucco mix may also be cleaned easily with warm water if this is done immediately after use.

Although the above disclosed stucco is normally used for wall covering, it may also be used as a joint or crack filler.

The embodiments of the invention in which an exclusive property or privilege is claimed, are defined as follows:

1. A stucco mix comprising in weight % between 15% and 30% water, 15% and 30% cellulose glue, 35% and 55% calcium carbonate and 3% and 30% linseed oil.
2. A stucco mix as defined in claim 1, further including up to 3% resin and up to 0.5% of a siccative.
3. A stucco mix as defined in claim 1, wherein the composition is about 20% water, 25% cellulose glue, 50% granular calcium carbonate, 4% boiled linseed oil, and further including 1.5% resin and 0.5% of a cobalt siccative.
4. A stucco mix as claimed in claim 1, 2 or 3, further comprising between 5% and 30% of a filler selected from the group consisting of sand and sawdust.
5. A stucco mix as defined in claim 1 or 2, further including an additional mixture admixed with the above mix in an amount of about 10% by weight and consisting of about 1 part by weight of plaster of Paris and 2 parts by weight of a slow drying plaster.
6. A stucco mix as defined in claim 2 or 3, wherein said resin is a varnish.